

Title (en)  
Finger vein authentication device

Title (de)  
Vorrichtung zur Authentifizierung von Fingervenen

Title (fr)  
Dispositif d'authentification de veine de doigt

Publication  
**EP 2469452 B1 20131225 (EN)**

Application  
**EP 12160700 A 20090813**

Priority  
• EP 09167855 A 20090813  
• JP 2008268750 A 20081017

Abstract (en)  
[origin: EP2178027A2] A compact and highly accurate downward irradiation type finger vein authentication device achieved by providing a structure that stabilizes the finger (200) and also prevents adverse effects caused by the left and right fingers (201, 202). The finger vein authentication device comprises a center finger stand (26) for mounting the finger (200) for authentication; a light source (3) for irradiating infrared light onto the finger (200); an image capture unit (4) for capturing an image of the finger veins by way of light from a light source (3); an aperture (20) to open in the image capture direction of the image capture unit (4); a storage device (14) to store the finger biological information; an authentication processor unit (11) to extract the features from the image captured by the image capture unit (4) and match the features with the biological information stored in the storage device (14); and a left and right finger stand (27, 28) for the fingers (201, 202) on the left and right of the finger (200) for authentication. This left and right finger stand (27, 28) is installed at a position somewhat higher than the center finger stand (26). This left and right finger stand (27, 28) is also made from a light blocking member and a light source (3) is installed in the lower section.

IPC 8 full level  
**G06V 10/141** (2022.01); **G06V 40/145** (2022.01); **G07C 9/00** (2006.01)

CPC (source: EP US)  
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